WHAT IS CLAIMED:

1. A method of performing a handoff in a mobile communication system, comprising:

modulating data of a non-full rate frame having at least one repeated symbol by a first base station at a prescribed energy transmission level;

generating a searching period by reducing a number of repeated symbols while maintaining the prescribed energy transmission level by increasing an average symbol energy level in a forward link; and

searching frequency information of at least one second base station by a mobile terminal during the searching period to perform a handoff.

- 2. The method of claim 1, wherein the base station controls the power level of the non-full rate frame of the forward link prior to generating the searching period.
- 3. The method of claim 1, wherein the base station increases the forward link power of the non-full rate frame prior to generating the searching period.
- 4. The method of claim 3, wherein the average symbol energy during the non-full rate frame is increased prior to generating the searching period.
 - 5. The method of claim 1, wherein said modulating step further comprises

controlling an energy per modulation symbol.

- 6. The method of claim 5, wherein the energy per modulation symbol is increased.
- 7. The method of claim 5, wherein the modulating step further comprises controlling a position of the symbol.
- 8. The method of claim 7, further comprising controlling a form of a transmitting period with a variable rate characteristic of the transmission frame.
- 9. The method of claim 8, wherein said modulating step further comprises controlling an energy per information bit of the symbol.
- 10. The method of claim 1, wherein said modulating step further comprises controlling a position of the symbol.

- 11. The method of claim 1, further comprising controlling a form of a transmitting period with a variable rate characteristic of the transmission frame.
- 12. The method of claim 1, wherein the repeat time is an integer number of repetitions.
 - 13. The method of claim 1, wherein the modulated data is non-compressed.
- 14. The method of claim 1, wherein a transmission length of the frame is shortened from a first length by reducing the number of symbol repetitions and wherein the inserted search period reconstructs the frame to the first length.
- 15. The method of claim 1, wherein the at least one repeated symbol is identical to at least one other transmitted symbol.
- 16. A method for providing a handoff in a mobile communication system, comprising:

modulating data by a base station into a non-full rate frame having at least one repeated symbol period by controlling an energy transmission level;

forming a non-transmitting period within the modulated frame at the base station by reducing a number of repeated symbols and increasing an average symbol

energy during the modulated frame; and

searching frequency information of a peripheral base station during the non-transmitting period to perform a handoff and transmitting the searched information to a transmitter of the base station.

- 17. The method of claim 16, wherein modulating data further comprises increasing an average symbol energy within the modulated frame prior to forming the non-transmitting period.
- 18. The method of claim 16, wherein the energy transmission level is controlled on the forward link prior to forming the non-transmitting period.
- 19. The method of claim 16, wherein a non-transmitting period is inserted into the transmission frame by controlling the number of repeated symbols based on the transmission symbol energy.

- 20. The method of claim 16, wherein said non-transmitting period of said transmission frame is inserted in a random pattern through a variable rate limitation method.
- 21. The method of claim 20, wherein said random pattern is any one of a half rate, a quarter rate, and an eighth rate.
- 22. The method of claim 16, wherein said non-transmitting period of said transmission frame is a frequency searching period.
- 23. The method of claim 22, wherein a starting point of said frequency searching period is modularly increased in a length unit of a transmitting period.
- 24. The method of claim 22, wherein a starting point of said frequency searching period is alternately changed to a front part and a rear part of a frame to maximize the frequency searching period.
- 25. The method of claim 16, wherein the non-transmitting period is formed based on a form of a transmitting period with a variable rate characteristic.
 - 26. The method of claim 16, wherein the number of repetitions is an integer.

27. A method for providing a handoff in a mobile communication system, comprising:

controlling an energy level of symbols in a non-full rate transmission frame on a forward link at a first base station;

generating a non-transmitting period in the frame of the first base station by reducing a number of repetitions of a transmission symbol in a pre-transmission frame and at least one of a position and form of a transmitting period; and

searching a second base station signal of a different frequency during the non-transmitting period by a mobile station that has received the transmission frame.

- 28. The method of claim 27, wherein controlling the energy level comprises increasing an average symbol energy within the frame prior to forming the non-transmitting period.
- 29. The method of claim 27, wherein said non-transmitting period of said transmission frame is a frequency searching period.
- 30. The method of claim 27, wherein the mobile station transmits a signal to the second base station to perform the search for the second base station.
 - 31. The method of claim 27, wherein the number of repetitions is an integer.

- 32. The method of claim 27, wherein the transmission frame has the same energy level as the pre-transmission frame.
- 33. The method of claim 27, wherein data comprising the frame is limited to non-compressed data.
 - 34. A mobile communication system, comprising:
- a base station configured to modulate data into a non-full rate transmission frame having at least one repeated symbol and a prescribed transmission energy level, said base station forming a non-transmitting searching period by reducing a number of repetitions and controlling the prescribed transmission energy level; and
- a terminal configured to search frequency information during the non-transmitting searching period for performing an inter-frequency handoff and to transmit the searched frequency information to said base station.
- 35. The system of claim 34, wherein controlling the energy level comprises increasing an average symbol energy within the frame prior to forming the non-transmitting period.
 - 36. The telephone system of claim 34, wherein said base station comprises:

 a modulator that modulates the data to the prescribed energy level of the

transmission frame;

a gain control element that inserts the non-transmitting period into the transmission frame; and

a transmitter coupled to said gain controller to transmit the transmission frame.

- 37. The system of claim 34, wherein said terminal comprises:
 - a receiver that receives the transmission frame;
 - a demodulator coupled to demodulate the received transmission frame; and
 - a frequency synthesizer that varies a frequency during the non-transmitting

period and searches the frequency information of a peripheral base station having a

different frequency to perform a handoff.

- 38. The system of claim 34, wherein the number of repetitions is an integer.
- 39. The system of claim 34, wherein the prescribed transmission energy is determined based on an inverse proportion of a number of repetitions of a transmission symbol, and at least one of a position and form of a transmitting period with a variable rate characteristic of the transmission frame.
 - 40. A method of performing a handoff in a mobile communication system,

comprising:

modulating data of a non-full rate frame having at least one repeated symbol by a first base station at prescribed energy transmission level;

generating a searching period by reducing a portion of the non-full rate frame while maintaining the prescribed energy transmission level by increasing an average symbol energy during the modulated frame in a forward link; and

searching frequency information of at least one second base station by a mobile terminal during the searching period to perform a handoff.

41. A method of performing a handoff in a mobile communication system, comprising:

modulating data of a non-full rate frame having at least one repeated symbol at a prescribed energy transmission level;

generating a searching period by non-transmitting a portion of the non-full rate frame while maintaining the prescribed energy transmission level by increasing an average symbol energy during the modulated frame; and

searching frequency information of at least one second base station during the searching period to perform a handoff.